

L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 1994:56685 CAPLUS Full-text

DN 120:56685

TI Phthalocyanines and their manufacture

IN Yoshitoshi, Koji; Onozaki, Yoshiho; Kaieda, Osamu

PA Nippon Catalytic Chem Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

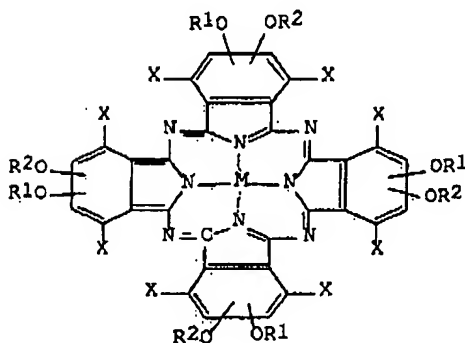
CODEN: JKOKAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05222301	A2	19930831	JP 1992-23541	19920210
	JP 3278451	B2	20020430		
PRAI	JP 1992-23541		19920210		
OS	MARPAT 120:56685				
GI					



I

AB Phthalocyanines I (X = OR3, SR4; R1-R4 = C1-20 alkyl, C4-6 cycloalkyl, Ph, PhCH2, naphthyl (aromatic rings may be alkyl- or alkoxy- or halo-substituted); it is not the case that R1 = R2 = R3; M = metal, metal oxide, metal halide), near-IR-absorbing with good solvent solubility, are prepared by treating I (X = F) with R3OH or R4SH in an organic solvent. Thus, refluxing vanadyl 3,6-octafluoro-4,5-octaphenoxypthalocyanine and PhSH in pyridine in the presence of KOH gave 74.5% vanadyl 4,5-octaphenoxo-3,6-octakis(phenylthio)phthalocyanine with absorption  $\lambda_{\text{max}}$  792.5 nm in CHCl3 and solubility 11.5% in CHCl3 and 5.8% in toluene.

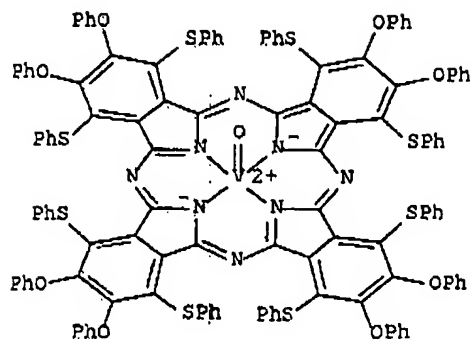
IT 152223-14-8P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of near IR-absorbing, solvent-soluble)

RN 152223-14-8 CAPLUS

CN Vanadium, [2,3,9,10,16,17,23,24-octaphenoxo-1,4,8,11,15,18,22,25-octakis(phenylthio)-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]oxo-, (SP-5-12)- (9CI) (CA INDEX NAME)

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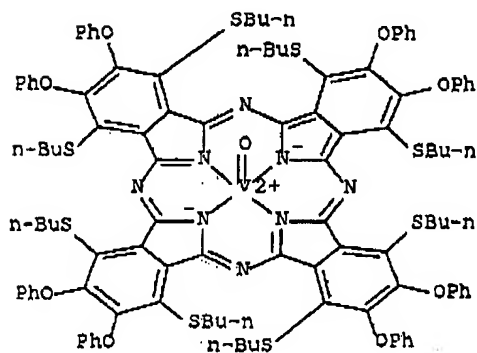


IT 152223-18-2P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of, near-IR-absorbing, solvent-soluble)

RN 152223-18-2 CAPLUS

CN Vanadium, [1,4,8,11,15,18,22,25-octakis(butylthio)-2,3,9,10,16,17,23,24-octaphenoxy-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]oxo-, (SP-5-12)-(9CI) (CA INDEX NAME)



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